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grant. A full description of the research accomplishments will appear in the final technical report of the parent grant (due 14 March 1998).

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FINAL TECHNICAL REPORT

and

ANNUAL AASERT REPORT (FORM A2-2)

TO THE OFFICE OF NAVAL RESEARCH

For Grant No. N00014-93-1-0908

Emily A. Carter

Department of Chemistry and Biochemistry
Box 951569
University of California, Los Angeles
Los Angeles, CA 90095-1569

Summary

This AASERT grant supported, off and on, six graduate students and one undergraduate student. These were, of course, all U.S. citizens, including 3 women and 1 Asian-American. The work done by these students led to publications on complete active space self-consistent field molecular dynamics simulations on clusters and chemical reactions, local pseudospectral electron correlation methods, and developments in pseudospectral electronic structure theory. The latter include a systematic means of eliminating aliasing errors in conventional pseudospectral self-consistent field theory and a new massively parallel pseudospectral self-consistent field scheme that also eliminates the aliasing problem while still reducing the scaling of the self-consistent field algorithm by solving an unconventional minimization problem. These accomplishments will be summarized in detail in the final technical report of the parent grant.

GRANT NUMBER: N00014-93-1-0908

FORM A2-2 AUGMENTATION AWARDS FOR SCIENCE & ENGINEERING RESEARCH TRAINING (AASERT) REPORTING FORM

The Department of Defense (DOD) requires certain information to evaluate the effectiveness of the AASERT program. By accepting this Grant Modification, which bestows the AASERT funds, the Grantee agrees to provide the information requested below to the Government's technical point of contact by each annual anniversary of the AASERT award date.

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